

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: w5tvw@juno.com (Sandy Blaize)  
Subject: Re: 455 khz IF vs. 500 khz IF  
Message-ID: <19960731.223631.12287.1.W5TVW@juno.com>

The R-388 and the 51J3/4 series use a 500 Khz IF. The R-390/390A uses a 455 khz IF. I don't know what the R389 uses, as I have never seen or had one.

454, 455, 456, 465 Khz are all rather common IF frequencies used in "BA" receivers. 455 Khz is now the more-or-less "standard". (In that range of frequencies!) I think Collins chose 500 Khz as it was very easy to use one crystal for two or more bands in the first conversion oscillator, and the "mathematics" are much simpler in figuring out the signal frequencies in various parts of the receiver. Basically that series has two 'variable IF frequency ranges': 1.5-2.5 and 2.5-3.5 Mhz. The VFO (PT0) tunes 2-3 Mhz. giving the 500 khz difference or sum frequency. Those two bands are "single conversion" on the R-388, 51J series. The bands from 3.5-4.5 up to the 29.5-30.5 being dual conversion. The broadcast band is an "oddball" triple conversion scheme!

This is a far cry from all the "new" stuff that upconverts to VHF, does all the frequency manipulation and then downconverts to some HF "IF" frequency. With microprocessors and all this digital stuff everything has become "white man's magic" now. Specialized chips etc. make equipment hard to fix. That's the "lure" of the "boat anchor" stuff: there's always a way to make it go, even with outboard supplies etc!

73

Sandy Blaize, W5TVW  
Boat Anchors collected, restored, modified, traded & used!  
w5tvw@juno.com  
417 Ridgewood Drive,  
Metairie, LA., 70001.

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Jim Berry" <basalop@eskimo.com>  
Subject: ART-13 story  
Message-ID: <199608010114.SAA26766@mail.eskimo.com>

Hello old radio fans,

I have been looking for an ART-13 for the last couple of months. Kind of dragging my feet on buying one because I have not gotten used to the prices. I bought one 20 years ago for \$25 and it came with a homebrew power supply. John AB6OH,

who lives in the Los Angeles area contacted me. He had one along with a power supply. The supply was built into a 4 foot tall rack cabinet. He wanted \$250 for it DELVIERED! This wonderful fella drove up here (around 1300 miles) and wheeled it out of his van into my radio room (radio pit as my wife calls it), plugged it in and tuned it up to make sure it was working.

Description: The ART-13 is complete and original except it does not have the shock mount assembly, the calibration book, nor the chart that goes on the front. The copy of a manual I received with it does include all the calibration info in it though, so I can live without the calibration book when it comes to putting it on the air.

Trades? He also brought along an LM freq meter. This is the Navy version of the BC-221. It looks real good. The power plug has been changed to a 8 pin octal. There is no power supply for it or calibration book, but does have the manual. There is also a loose leaf printout of the checkpoint, frequency, dial information. You know what I need now for my ART-13, I need to do some trading. If I spend anymore money for "dirty old radio parts" my wife is going to make me live in the back yard.

73 Jim K7SLI

\*\*\*

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)

Email: basalop@eskimo.com FAX: 360-659-1360

Ham Digital: K7SLI @ K7SLI.#NWWA.WA.USA.NA

\*\*\*

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996

From: BC375@aol.com

Subject: BA FS

Message-ID: <960801205822\_169826808@emout14.mail.aol.com>

To Members: The following item are offered for sale:

1. BC 669 w/AC PS, Remote Control and Cables \$250.00
2. Periscopic Gun Sight MK33, in original crate. Large item @ 70 inches long.  
\$1000.00
3. Farmall tractor 1944 with front bucket and plow. Good running cond.  
  
Perfect for putting the heavy BA's high into the garage rafters for viewing next time you want to see them. \$4000.00
4. GRC-3 with base,interconnectors and manual. \$300.00
5. GRC-19 with base,manual and many spares in good condition. \$400.00
6. Other items as well--needs and wants?

Contact: William Van Lennep @ PM's EST : 508-433-6031 and  
@ AM's EST:  
508-753-5827 for FAX

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Gary Youney <72302.2164@CompuServe.COM>  
Subject: BA's for sale  
Message-ID: <960802002348\_72302.2164\_DHR38-1@CompuServe.COM>

Greetings, All!

I have for sale:

Heathkit Mohawk, good-very good condition, \$150 plus shipping.

Johnson Viking I, good-very good also, \$140 plus shipping.

Gary AA5QT (713) 355-6153

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Paul Bock" <pauboc@smtplink.pulse.com>  
Subject: BC-221 info for the database.....  
Message-ID: <9607018389.AA838919688@smtplink.pulse.com>

BC-221-N, s/n 4543, Order No. 4674-PH-42, Philco Corporation, Philadelphia, PA. Metal case, snap-latch drop-front (upper half), cal book (screwed to inside of lid w/6 screws) behind hinged plastic window. Dzus-fastened (2) drop-rear (lower half) for access to battery compartment. Spare parts storage in lower front compartment (6-screw access). Carrying handle on top, carrying strap rings on side.

Works fine, has lasted a long time, guaranteed not to rust, bust or dust.....

DE K4MSG

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Merv Schweigert <k9fd@htc.net>  
Subject: BC221  
Message-ID: <9608011540.AA05837@ns.htc.net>

For the BC221 info collectors:  
BC221-AK Serial 1914  
Olive drap wooden case, flip open front with calibration book, instead of plastic see through there is a schematic pasted to the cover.  
The freq meter is black wrinkle.  
Front has flip down dzus-fastened parts compartment, back has same with homebrew ac supply inside.  
Almost as new condition yet, works good, still in use. No manual. (anybody have a copy ??)

F.Y.I. thanks Merv K9FD

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Paul Bock" <pauboc@smtplink.pulse.com>  
Subject: Books FS  
Message-ID: <9607018389.AA838921188@smtplink.pulse.com>

Following available for sale; prices include shipping in 48 U.S. FIRM prices are just that, and first respondent wins. OBO volumes will be sold to highest bidder responding by Monday, 8/1/96.

EXCEPTION: First person who offers \$160 for the lot gets them all.

E-mail replies only, please.

73,

Paul, K4MSG

\*\*\*\*\*

"NAB Engineering Handbook," 4th edition, 1949. Classic volume covers AM and early FM & TV standards, operator licensing standards, logging requirements, antenna/transmitter/studio design, etc.. Large green binder, 2" thick, sections tabbed. VGC, \$75.00 FIRM

"Principles of Radar," MIT Radar School Staff, 3rd edition, 1952. Classic treatise on radar. Hardbound, VGC, \$30.00 FIRM

"Reference Data for Radio Engineers," ITT, 4th edition, 1956. Hardbound, GC (binding inside covers is loose). \$20.00 FIRM

"Antenna Engineering Handbook," Henry Jasik, 1st edition, 1961. Hardbound, VGC, \$20.00 FIRM

"Communications Networks, Vol. I - The Classical Theory of Lumped Constant Networks," Ernst Gullemmin, 1931. Hardbound, VGC, \$10.00 OBO

"Communications Systems and Techniques," Mischa Schwartz, William R. Bennett, & Seymour Stein, 1966. Hardbound, VGC, \$10.00 OBO

"Network Analysis and Synthesis," Louis Weinberg, 1962 (McGraw-Hill EE Series). Hardbound, EC, \$10.00 OBO

"Analysis of Electric Circuits," Brenner & Javid, 1959 (McGraw-Hill EE Series). Hardbound, EC, \$10.00 OBO

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996

From: "Richard A. George" <wa6jox@rain.org>

Subject: box of manuals

Message-ID: <Pine.SUN.3.94.960731211850.7664A-100000@coyote.rain.org>

I recently took in a large box of manuals in a trade. They donot "fit" anything that i have but i'm sure someone really could use them. Most are originals some are copys. The box is quite heavy so please consider this in your offer. I will take the best offer that i receive by aug 5th but please include enough in you offer to cover UPS shipping from 93030

(southern california). I donot want to sell individual manuals and will sell as a lot only. Please reply e-mail direct. A partial list follows.

Military  
ZM-11AU  
AN-PRC47  
CU-737URC  
OS-8C/U  
AN/USM-174

Textronics  
Lots of manuals for plug ins  
P6006  
321 Scope  
561b  
561a  
543  
543a  
551  
527  
575  
and more

Sams  
Auto Radio 107  
CB8  
and more

H P  
3410a  
405b  
415d  
7560a  
7561a  
and more

Thanks Dick K6KWQ  
533 Corsicana dr  
Oxnard Ca 93030

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Allan Fritsche" <fritsche@msn.com>  
Subject: Coils, problems, errata of the HQ-145  
Message-ID: <UPMAIL03.199608020003520295@msn.com>

Gang, Been in Baton Rouge, La. most of this week and am catching up on the

mail list as of now.

Got to answer some personal, but don't have time tonight.

Got the HQ-145 to respond a little before I had to leave town. i.e ifs seem to be passing signal, albeit not much on 3035kc.

Biggest problem at the moment is the Ant. coil for the 4 to 10 MC band. Completely ruined and also completely removed. I did save the length of litz wire for the pri and sec but don't know if they where bifilar. Any help.

On the way home tonite I stopped at City Electronics in Southwest Houston and tried to get a coil form to rewind. He had no forms but I did pick up to JW Miller coils that once stripped of all windings I can use.

Now my dilemma. Should I strip these guys, both are tunable with core, but they are brand new in plastic wrap. What to do. Even these guys are getting harder to find.

So now for the BEGGING and PLEADING part.

to save these 2 little guys, does anyone have a 1/4 paper coil form about a inch and a half long or longer with slug in place and adjustable.

If no one responds by this weekend I will hold the list in general as murderers of at least one of the sweep coils.

Dam, hows that for starting a guilt trip.

Your Friend Al  
fritsche@msn.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>  
Subject: Re: Coils, problems, errata of the HQ-145  
Message-ID: <199608020056.TAA16108@dlep1.itg.ti.com>

At 07:05 PM 8/1/96 -0500, Al Fritsche wrote:

>So now for the BEGGING and PLEADING part.

>to save these 2 little guys, does anyone have a 1/4 paper coil form about a  
>inch and a half long or longer with slug in place and adjustable.

>

>If no one responds by this weekend I will hold the list in general as  
>murderers of at least one of the sweep coils.

>Dam, hows that for starting a guilt trip.

>

>Your Friend Al

Sure, I've got one for you, Al. All you had to do was ask. In fact I've got lots of 'em. I'll be ever so glad to pull some out of one of my SB-400 carcasses and send 'em to you. Just send me your address. Somehow though, I suspect what you really need is a Hammarlund carcass to extract a similar IF transformer from... I can't help you with that, though.

As for the guilt trip... I told you not to drill out the cores. All you had to do, I said, was to gently nudge the shattered core pieces out with a small pick, at most a two minute operation. But, did you listen? Noooo...

How's that for an "I told you so."

Believe me, Al, you've got my sympathy. I've been there, done that sort of thing before too many times.

Regard,  
Bill Sorsby, N5BU  
Regards,  
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Paul Fischer" <PFF@bfs.uwm.edu>  
Subject: collins kwm-2  
Message-ID: <8A09BA57B3@bfs.uwm.edu>

Hi Gang,  
Just bought a kwm-2. Like new. Need the rubber feet for the bottom of the rig. Anyone know where I might find these?

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Cathy Elizabeth D'Entremont" <cdent@tenet.edu>  
Subject: Re: collins kwm-2  
Message-ID: <Pine.OSF.3.91.960801124831.28338A-100000@francis.tenet.edu>

Paul:  
One source (taken from Collins Journal ad):  
Ed, W3WDF  
8245 Garden Oaks Drive  
San Antonio, TX 78266-1017  
(210) 651-9348  
Standard disclaimer, i.e. I have no interest financial or otherwise.

73, Gerald D'Entremont WA5TVM



cdent@tenet.edu

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Paul Fischer" <PFF@bfs.uwm.edu>  
Subject: collins kwm-2  
Message-ID: <8DB1E7366E@bfs.uwm.edu>

Hi Again,

I wanted to ask you folks "in the know" if I have the connections I need straight before I fire up my KWM-2. From what I read it looks as though all I need do is :

- connect power supply
- connect antenna to rf out, I assume this is also rf in as well(I have the 259 to rca connectors)
- connect speaker

And away we go. Is this correct? At this point I will not be connecting any other devices. Thanks.

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: k7yha@juno.com (richard h. arland)  
Subject: Re: collins kwm-2  
Message-ID: <19960802.000622.4447.3.k7yha@juno.com>

On Thu, 1 Aug 1996 10:51:13 -0500 (CDT) "Paul Fischer" <PFF@bfs.uwm.edu> writes:

>Hi Gang,  
> Just bought a kwm-2. Like new. Need the rubber feet for the bottom  
>of the rig. Anyone know where I might find these?  
>

Try: The Collins Collector's Association, POB 840924, Pembroke Pines, FL, 33084-0942.

OR try: jmillier@teleteam.net. OR fax Jay Miller, KK5IM at (214) 828-2952. I'm sure Jay can point you in the right direction.

OR, stop by your local military installation and visit the MARS station,.... have your wife/girlfriend keep the operator busy and liberate the feet from an old KWM-2A ! (only kidding)

73 rich K7YHA

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: K1EL@aol.com

Subject: Drake R4C Crystal Filters

Message-ID: <960731211837\_169006825@emout14.mail.aol.com>

I wonder if anyone has for sale or knows of a source for Drake R4C crystal filters. I am looking for the stock 2.4 KHz SSB and the 500 Hz CW filters. I have checked Drake and they don't sell them anymore and also haven't found any manufacturer's ads in current QSTs. Any help would be appreciated.

Steve K1EL

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996

From: "Rick Blank" <rblank@legend.txdirect.net>

Subject: Re: Drake R4C Crystal Filters

Message-ID: <199608010323.WAA17997@legend.txdirect.net>

> Date: Wed, 31 Jul 1996 20:18:03 -0500 (CDT)  
> Reply-to: K1EL@aol.com  
> From: K1EL@aol.com  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: Drake R4C Crystal Filters

> I wonder if anyone has for sale or knows of a source for Drake R4C crystal  
> filters. I am looking for the stock 2.4 KHz SSB and the 500 Hz CW filters. I  
> have checked Drake and they don't sell them anymore and also haven't found  
> any manufacturer's ads in current QSTs. Any help would be appreciated.

>

> Steve K1EL

>

>

Look in the classified section in QST and there have been ads for International Radio in Florida. They had replacement filters of better quality than the originals a while back....these guys are the ones who have the "Fox Tango" filters which I have used and can attest to their quality...in fact, the Drake filters they listed were of the Fox Tango brand....you might check them out and let us know....

They also had replacement, is it the 1st IF?, bandwidth filters to replace the original Drake items, too....

Good Luck

Rick Blank, KI5SL  
2223 Blanco Road  
San Antonio, Texas 78212

rblank@txdirect.net  
KI5SL@K3WGF.STX.USA.NOAM  
AMSAT NA#26195

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENET.dec.com>  
Subject: Eico 955 Cap tester for sale  
Message-ID: <9608011822.AA11894@us2rmc.zko.dec.com>

Well, wouldn't you know it. Just after I pecked this up from another list member, I managed to snag a Sprague T0-4 tester. So I'm offering this up for sale for what I paid.

Since the original post was accurate, here it is (minus the original author's info...thanks Pete :-)

Eico 955 in-circuit capacitor tester, working though I can't vouch for calibration.

Some paint chips, but basically attractive unit that's 9" x 6" x 5" HWD.

Has the following controls: large (4") clear dial with cap value markings - beneath this dial is the magic eye tube. A Test switch with short/capacity/open positions. An RC Range switch. RC Balance knob. Line Adj knob.

Has an Amphenol single button (mic) connector. I don't have the cable or the manual. Uses a 6C4 and 6FG6 magic eye tube (the linear kind, like the Hallicrafters HA-8 uses). Probably worth buying just for the tube. \$25 plus shipping from southern NH.

E-mail to pilant@seesaw.enet.dec.com

- Mark N1VQW

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: ELECTROLYTICS: TESTING & EVALUATING  
Message-ID: <9607312330.aa04910@pcusa01.ecunet.org>

I found this in the manual for a Sprague model T0-5 'Tel-Ohmike' capacitor analyzer (circa 1958).

This is for evaluating capacitance tolerance:

#### "2.3.1 DC Dry Electrolytics.

In general, capacitors less than 75% of their nominal value should be replaced. In bypass capacitors there is, from the application standpoint, usually no upper limit on the capacitance above nominal. This is also true of most filter capacitors except for the 'resevior' or input capacitors in power amplifiers. Here the upper capacitance limit depends on the

permissible current thru the rectifier tube or dry disc rectifier [e.g. selenium rectifier].

New dry eletrolytics for [consumer] TV-radio applications usually meet the following limits:

Rated Voltage	% Capacitance Tolerance
-----	-----
3-50	-10, +250
51-350	-10, +100
351-600	-10, +50 "

This is for leakage testing of electrolytics:

"4.3 It will be noted that the voltage reading will tend to increase after a short time as the leakage current begins to decrease to a stable value. The [applied] voltage control should be retarded accordingly to prevent more than rated voltage from being applied to the capacitor. The measurement of leakage current should be made only after a stable value [of leakage current] is reached.

Capacitors which have been have been out of use for periods of a year or more make take as long as 30 minutes to reach a stable value of leakage current. Such capacitors usually have a high current initially and the [applied] voltage control should be retarded so that the leakage current is less than 10 ma. in order to prevent overheating of the capacitor internally. The voltage should be adjusted upwards until rated voltage is reached as the leakage current decreases. When rated voltage is finally reached, proceed as detailed above. If there is appreciable fluctuation in the leakagae current indication, the capacitor is probably intermittent and should be discarded.

4.4 Test Limits - New radio-TV type electrolytics should have a maximum leakage current as shown in following table:

.... [long table here in text, use formula below instead]

Maximum leakage currents ... may be derived from the following formula:

$$I = kC + 0.5$$

where I is the leakage current in mA, C is capacitance in uF, and k is a constant as follows:

WVDC	k
----	----
3 to 100	.01

101 to 250	.02
251 to 350	.025
351 to 500	.04

Readings should be taken 5 minutes after capacitors are placed on rated DC Working Voltage. These limits may be used as a guide in judging whether capacitors should be replaced, making due allowance for the usual increase in leakage with age and with any high ambient temperature at which measurements are made. Capacitors with a leakage current of more than 15 mA should almost always be discarded."

On power factor (assuming you can measure it):

## "2.4 Power Factor

2.4.1 DC Dry Electrolytics - The 60 cycle power factor of new capacitors will usually fall below the maximum value give below. Capacitors rated at 150 volts or higher shoud usually be replaced if the measured value is twice that given. Low voltage sections of multi-section capacitors will generally have power factors higher than that listed, sometimes by 50%.

WVDC	Max. New P-F
----	-----
475-300	15
250	18
150	20
50	25
25	30
15	50
12	55
6	60 "

Interesting & comes from one of the largest capacitor manufacturers. Truly BA-type opinion.

-John Sehring (07/31/96 7:25 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
 From: "Benjamin D. Hall" <bdhall@ghgcorp.com>  
 Subject: eletrolytic cap = battery?  
 Message-ID: <32000813.794E@ghgcorp.com>

Here is a new one to me folks...

Was working on the power supply I got with my Hammarlund SP-400SX courtesy of Phil Mills and Robert Fowle (thanks folks!).

Interesting unit. Heavy as can be, with one big power transformer, a

5U4 for B+ and a 5Y3 as some sort of bias rectifier, and two chokes. Traced out the schematic pretty easily, and then went to ohm out the two flat brown wire wound resistors that are physically but not electrically broken. One was easy, 3 sections, each around 6k ohms. Put the Fluke DVM on the second, and got a negative ohms reading. So I made some disparaging comments about the Fluke (it's been flaky lately), and fired up the HP 412 VTVM. Ha! I'll teach that silly little DVM who is the real peice of test equipment. Guess what? Pegged the needle in the negative ohms region. Well shoot, something is acting like a battery and fooling the ohmmeters. Traced it to an electrolytic cap that is putting out almost half a volt into my approx 10 megohm meters, even after I discharge it... I know eletrolytic caps have chemicals -n- stuff inside them which gives them the high capacity in small package, and methinks this cap has problems and it acting like a dry cell...

Any of you chemists out there confirm/explain what is going on here? I am dying to know... (the cap isn't low ohms either, and regardless, will be replaced, can caps spook me)

Next question. Any of you SP-400 owners out there know the model number for the separate power supply? Or better yet, have a schematic you could photocopy for costs/mailling? The flat brown resistors are wirewound power resistors, I need a better guess than me saying "hey, looks like ten or twenty watts"...

Thanks and 73,  
Ben

--

-----  
From the computer of  
Benjamin D. Hall, Houston Texas  
BDHall@GHGCorp.com -or- BHall@GP802.JSC.NASA.gov

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: ELETROLYTICS INNARDS  
Message-ID: <9607312330.aa04916@pcusa01.ecunet.org>

Anybody know what's inside of DC eletrolytics, so recently & pungently described as emitting 'enema-like' substance.

Need to know what to do to clean up mess thereof. Have had stuff corrode chassis & eat paint in the past!

-John Sehring (07/31/96 8:30 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
Subject: FS: Hallicrafters SX-62A

I have a Hallicrafters SX-62A posted for auction at Auction Web  
Classifieds (<http://www.ebay.com/aw>)  
Don Wall

----- Forwarded message ends here -----

\*NOTE\* The message above is a re-post from the newsgroup rec.radio.swap.  
All replies \*must\* go to the person making the post, not me.

Dick Dillman  
WPE2VT N6VS ex-WA2BJK  
<ddillman@igc.apc.org>  
Collector of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Lahlum-FLR111 Ross" <ross\_lahlum@msmail.wes.mot.com>  
Subject: FW: eletrolytic cap = battery?  
Message-ID: <9608011433.AA19759@kay.wes.mot.com>

If Gertrude Stein were an engineer, she might have said, "A rose is a rose, but  
a cap is more than just a cap, an inductor is more than just an inductor, a  
resistor is more than just a resistor, and so on!"

Electrolytics retain some charge even after you think they have been discharged  
because internally they look like a bunch of R's & C's in series-parallel:

```
|--R--|--R--|--R--|--....  
C      C      C      C  
|--R--|--R--|--R--R--....
```

After you discharge the last C, the ones behind it charge it back up again (to a  
lower voltage, however). This is why it's a good idea to use bleeder  
resistors, especially on HV supplies.

73,  
Ross KB9JJR

---

From: bdhall@ghgcorp.com on Wed, Jul 31, 1996 8:45 PM  
Subject: eletrolytic cap = battery?

Here is a new one to me folks...

Was working on the power supply I got with my Hammarlund SP-400SX  
courtesy of Phil Mills and Robert Fowle (thanks folks!).

Interesting unit. Heavy as can be, with one big power transformer, a 5U4 for B+ and a 5Y3 as some sort of bias rectifier, and two chokes. Traced out the schematic pretty easily, and then went to ohm out the two flat brown wire wound resistors that are physically but not electrically broken. One was easy, 3 sections, each around 6k ohms. Put the Fluke DVM on the second, and got a negative ohms reading. So I made some disparaging comments about the Fluke (it's been flaky lately), and fired up the HP 412 VTVM. Ha! I'll teach that silly little DVM who is the real peice of test equipment. Guess what? Pegged the needle in the negative ohms region. Well shoot, something is acting like a battery and fooling the ohmmeters. Traced it to an electrolytic cap that is putting out almost half a volt into my approx 10 megohm meters, even after I discharge it... I know eletrolytic caps have chemicals -n- stuff inside them which gives them the high capacity in small package, and methinks this cap has problems and it acting like a dry cell...

Any of you chemists out there confirm/explain what is going on here? I am dying to know... (the cap isn't low ohms either, and regardless, will be replaced, can caps spook me)

Next question. Any of you SP-400 owners out there know the model number for the separate power supply? Or better yet, have a schematic you could photocopy for costs/mailling? The flat brown resistors are wirewound power resistors, I need a better guess than me saying "hey, looks like ten or twenty watts"...

Thanks and 73,  
Ben  
--

-----  
From the computer of  
Benjamin D. Hall, Houston Texas  
BDHall@GHGCorp.com -or- BHall@GP802.JSC.NASA.gov

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: BC375@aol.com



Subject: FWD FS BA'S

Message-ID: <960801095651\_589957872@emout15.mail.aol.com>

To Members, the following are offered for sale:

BC

669 with AC PS, Remote Control and Cables \$250.00 Local pick only  
Periscopic Gunsight MK33, in original crate, large item 70  
inches long \$1000.00 Farmall Tractor 1944, good running with  
tripbucket and snow plow. Great for putting boat anchors in the garage  
rafters. \$3000.00 Drive it home with one of these:

GRC-3 with base \$300.00 W/manual  
GRC-19 with base and many accessories. \$400.00 W/manual  
More items, please express needs and wants

Contact: William Van Lennep Home after 6 PM EST 508-433-6031 During

day may FAX inquires to VAN LELLEP, WILLIAM at 508-753-5827

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Fwd: FS: Hallicrafters SX-62A  
Message-ID: <88416.ddillman@igc.apc.org>

----- Forwarded message begins here -----

From: Don Wall <dwall@shore.net >  
Newsgroups: usenet.rec.radio.swap  
From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: don merz <71333.144@CompuServe.COM>  
Subject: Gear, Literature FS  
Message-ID: <960801180209\_71333.144\_DHB71-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.  
412-234-8819 (weekdays, EST or leave a message anytime).  
71333.144@compuserve.com

A.C. Gilbert "Boy Engineering," 1920. Catalog and stories including  
an Interview With Thomas A. Edison. Very Good condition. \$33  
Pilot's Radio Manual, 1940. Civil Aeronautics Administration Bulletin #29.  
How radio works. How planes use radios. Specific, detailed instructions  
on using radio for air navigation and communication. Terrific! Excellent  
condition. \$29

Military Army Air Forces TO 30-100A, -B and -F: Instrument Flying, Basic  
and Advanced. Dated 6/1/43. Includes a fair number of 2-color pages.  
Excellent and fun to read. \$19

Military Army Air Forces TO 30-100C: Instrument Flying, Instrument  
Traininer. Dated 8/1/43. Companion to above volume, I think, for use  
with a "trainer" machine (simulator). Lots of instrument panel photos.  
Great stuff. \$16

GF-11/RU-16 Test Meter type CW-22266 made by Western Electric under contract  
NOS-84530 dated April 21, 1941. Triplet movement 0-35ma DC. Beautiful  
black wrinkle case--like new. Neat accessory for your GF/RU rig. \$29

Hallicrafters PM-23 speaker. This is the correct match for the SX-28 and  
others. Paint in nice shape but louvers are rusty. Original Hallicrafters-  
labeled driver. Working. \$120

SW-3 coils. Original SW-3 coil pairs for 80, 40 and 20 meters. These work  
on the SW-5 too of course. Very good condition. These are numbers 63A,  
13A and 35. \$75 each pair.

Astatic 10-DA microphone. This is the one with the chrome face and gray hammertone body. Mic is in excellent shape but the G-stand cord has been cut off. \$35

Military RBL-6 VLF receiver made by National. The RBL-6 is WWII Navy issue and looks like the NC-100A radio. This one looks great and works well. But it came without a cabinet. I found a cabinet that is the right width but 1/2" too tall. So I added a 1/2 filler at the bottom and the radio slides right in. It looks great and only a purist would notice that the cabinet is wrong. Anyway, the RBL-6 with cabinet is \$155. Weighs 110 pounds.

AN/GRR-5 antenna. This is the whip antenna that mounts on the AN/GRR-5 (R-174/PP-308) radio. All 3 sections. Perfect condition. \$20

ALSO...the following ad will run in the next issue of ELECTRIC RADIO:

FOR SALE: National NC-46, some paint blemishes, working poorly: \$99;  
URM-25F, missing accessories, otherwise good, original manual: \$69;  
ARC-2 manual reprint: \$34; 1935 ARRL Handbook, cover loose: \$45.

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: GR 650  
Message-ID: <9608012115.aa06032@pcusa01.ecunet.org>

Would that Heath copy of the GR 650 be the IB-28?

-John Sehring (08/01/96 4:20 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: w5tvw@juno.com (Sandy Blaize)  
Subject: Re: GR 650 O&M?  
Message-ID: <19960731.192856.8087.3.W5TVW@juno.com>

Have you tried Ford's Surplus in Canada? They have a web page on the internet and they are very good people to deal with. I don't have his E-mail address at this instant, but I'm sure someone here will.

That bridge was copied by Heathkit way back. It was a "japanese" copy of the G-R 650! Even to the sloping panel and wood case!  
It used the old maroon on light grey-green panel color scheme!

73

Sandy Blaize, W5TVW  
Boat Anchors collected, restored, modified, traded & used!  
w5tvw@juno.com  
417 Ridgewood Drive,

Metairie, LA., 70001.

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: steve@hi.com (Steve Byan)  
Subject: Re: GR 650 O&M?  
Message-ID: <v02130508ae26b61fdc97@[140.243.30.128]>

>Any one out there have any written material supporting the General Radio  
>model 650 slopping front RCL impedance bridge? This is a dry  
>cell battery powered (vibrator/headphone) 1 KC vibrator instrument form  
>the early 1930s or so. A copy would be fine.

Boy, another round-tuit! This is great!

I'm also in need of a GR 650 manual, since I followed Barry Ornitz' advice and picked one up at the spring Deerchester NH hamfest. I've been meaning to give Al Kryseniel a call to see if he has a manual. Al shows up at the MIT fleas, and does business as "Acton Service Company" repairing and recalibrating General Radio equipment. At his flea table, he seems to have a good selection of GR lab standard capacitors and such.

I called Al and got his XYL - I guess he's at his day-job. I left a message inquiring about 650 manuals and will let the list know if he has any.

If you need to contact him for repair work on General Radio gear, here's his address and phone from his business card:

Al Kryseniel  
Acton Service Company  
13 Independence Road  
So. Acton, MA 01720  
(508) 897-9127

Regards,  
-Steve

Steve Byan  
12 Oak Ridge Road  
Littleton, MA 01460

internet: smb@world.std.com  
phone: (508) 486-4241  
FAX: (617) 890-4998

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: steve@hi.com (Steve Byan)

Subject: Re: GR 650 O&M?

Message-ID: <v0213050aae26c324eb6c@[140.243.30.128]>

I wrote:

>So. Action, MA 01720

Gack! That should be "So. Acton, MA", not "So. Action".

Al Kryseniel  
Acton Service Company  
13 Independence Road  
So. Acton, MA 01720  
(508) 897-9127

-Steve

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996

From: mack@mails.imed.com

Subject: Hallicrafters SP-200 :<) !!!

Message-ID: <9607018389.AA838935773@mails.imed.com>

As many of you noted my brain got the 2 "H" manufacturers backwards.  
Sometimes my brain just does stuff like that.

Ray Mack  
WD5IFS  
mack@mails.imed.com

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996

From: mack@mails.imed.com

Subject: Hallicrafters SP-200 Questions (long)

Message-ID: <9607018389.AA838920168@mails.imed.com>

Robert gave those of us in Houston a tip on several SP receivers that  
were for pick-up only. many thanks to Robert!! I ended up with 2  
SP-200's.

One has a name plate and a new front panel (not nearly as nice as the  
"true" SP200) that says Mackay Radio Company. Further down it says  
that it is modified for keying or some such leading me to believe it  
was a stock SP-200 that was modified under contract for RTTY use.  
This makes sense since the phones jack is insulated from chassis and  
the crystal filter stuff is replaced with an ordinary looking IF can.

There are also other non-stock things on the back panel. Anyone have any info on this?

The other SP-200 doesn't say Hallicrafters anywhere on it. Is it possible others than Hallicrafters made SP-200's? One radio had a bottom plate. It says BC 794 B. Does this mean this is a military radio? This radio also has a stamp with a month day and year. The year is 1958. I thought this radio was a lot older than 1958. Does that make sense?

Enough on the history. Now to getting them (or at least one) back working. The wiring in these is probably not salvageable. Many wires have simply disintegrated. Any suggestions on what is appropriate to replace the wiring in these radios?

Like Ben's SP-400 these have some metal octal tubes replaced by miniature 7 or 9 pin tubes. Should these be put back to original?

These are the roughest looking radios I have ever seen. There is rust all over the covers and chassis. Even the tops of the metal tubes are badly rusted. What should be done about the rust? I would probably need to remove several ID plates that are riveted to some of the covers. My inclination is to remove these so the metal can be prep'ed and reconditioned. Should I do this and how should they be re-attached? The front panel on one is engraved so that one will be stripped and repainted. The other (Mackay Radio) one looks to be aluminum with screened legends. That one is probably not worth working on.

One radio has a 6V6 GTB that has a base that is only about 1/4 inch tall disk vs the usual 1 inch tall full base. I have never seen such a tube before. I guess it is a vintage late 60's/early 70's when tubes started to be replaced by solid state.

Thanks for your indulgence of so many questions.

Looking forward to seeing some of you in Austin.

Ray Mack  
WD5IFS  
mack@mails.imed.com  
Friendswood (Houston), TX

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Bill Sorsby <bill.sorsby@dlep1.itg.ti.com>

Subject: Re: Hallicrafters SP-200 Questions (long)  
Message-ID: <199608011701.MAA22490@dlep1.itg.ti.com>

Hi Ray,

Congrats on the Super-Pro's. Sounds like you'll have lots of fun!

Unfortunate that the crystal filter was taken out of one. The crystal filter is the heart of the receiver, IMHO. Having said that, I'll also point out that I used a Super-Pro without crystal filter as my main receiver for most of my first five years as a ham. (I had no money as a kid.)

The BC-794 was one of the SP-200 military designations. It was my impression that after the SP-400 introduction in the latter '40's, no more SP-200 series radios were built. I would guess that the 1958 stamp indicates when the unit was modified or possibly refurbished.

Super-Pro's were made by Hammarlund and Howard. I haven't heard of any being made by Hallicrafters.

Most likely the tube replacements were enhancements to performance and represent the efforts of an earlier craftsman. I wouldn't necessarily convert the set back to original status.

Only other advice I can offer is beware of the micamold paper caps used for bypassing throughout the receiver. Given the harsh environment yours were subjected to, I'd guess that many or most of them are leaky or even shorted.

BTW, in case you and the other guys don't have a copy of TM-11-866, which covers the SP-200 series Super-Pro's, I'll volunteer to make some copies for you.

Regards,  
Bill Sorsby, N5BU

\*\*\*\*\*  
bill.sorsby@dlep1.itg.ti.com  
Views expressed herein are no one's fault but mine.  
\*\*\*\*\*

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: Mike LeMoine <mlemoire@SNET.Net>  
Subject: Heathkit SB-10 manual?  
Message-ID: <9608010310.AA39050@CT1.SNET.Net>

Hi Folks,

I'm looking for the manual for my Heathkit SB-10. Do you have one you can copy for me? I'll pay reasonable copying/postage costs.

I'm also looking for a junker Hammarlund HC-10 SSB converter to rebuild. It would be nice if it had the six IF transformers and the one BFO transformer at least. Let me know if you have one or can get one. I guess this would be a "Hammerkit" when I complete it.

Bill Michels  
mlemoine@snet.net

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:381-1529" <pilant@seesaw.ENET.dec.com>  
Subject: Heathkit TC-3 (emission type) tube testerfor sale  
Message-ID: <9608011827.AA12282@us2rmc.zko.dec.com>

I've had this for about a year, and it hasn't seen any use since I picked up a TV-2 and a TV-7.

The TC-3 is a simple emissions type tube tester, with a roll chart visible through a slot in the front. It worked fine the last time I used it. The buyer will also get the original manual. (Well, it is an original TC-3 manual, but probably not the one used by the builder :-)

I'm asking \$25 plus shipping from southern NH.

E-mail to pilant@seesaw.enet.dec.com

- Mark N1VQW

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: heikud@directcon.net (Dennis Heikura)  
Subject: HP-23 Power Supply Wanted  
Message-ID: <199608011747.KAA14959@zeus.directcon.net>

Hi Folks,

A pending Heath HW-101 revival project places me in need of a Heath HP-23 series Power Supply. Does anyone in BA land of one that they would part with? It need not be perfect, just fixable.



73---Denny---WB7EGG

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Sieversen, George" <George.Sieversen@HBC.honeywell.com>  
Subject: RE: ID on Collins Mechanical Filter

Greetings fellow thermionic emissives:

First, I want to thank everyone who provided valuable input on my "mystery" filter. I retested using the correct value (30pf) and the filter's response looked good. Gee, it's too bad this turned out to be an SSB filter. But, there's always that 6 meter homebrew SSB rig. Hmmm.

Second, here's my experience to date trying to outfit the 75A-4 with a decent AM filter:

Tried cascading several of those \$5 consumer-grade 6KHz ceramic filters. By the time there was any real skirt selectivity (four filters), the insertion loss had become intolerable. The idea of adding a FET EQ amplifier seems inconsistent with the boatanchor spirit!

Through an acquaintance in Chicago, I was put in contact with someone who knew someone who knew someone who had a genuine 6KHz filter for my 75A-4. (Life is good, I thought.) When asked how much he wanted for it, he replied "\$335". My response: "I only need one. How much would one cost?" He failed to see the humor in my question, insisting \$335 was a fair and non-negotiable price. Needless to say, there was no deal. My read on this fellow was that he's not a ham. I destroyed the paper containing his name and phone number, content in the knowledge that I've done my small part to discourage this type of predatory activity. (Life is great!)

Several boatanchorites suggested using an 8KHz mechanical filter from an R390. This seemed like a reasonable alternative. So, I ordered one from Fair Radio for the paltry sum of \$27. (Life is really great!) Although 8KHz is a bit wide, I can always rely on the 75A-4's existing 3.1KHz filter, which works very well on AM when the QRM gets rough.

Stay tuned. 73

George K9GDT  
Barrington, IL  
george.sieversen@hbc.honeywell.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: steve@hi.com (Steve Byan)  
Subject: Re: Krohn-Hite Bandpass Filter  
Message-ID: <v02130509ae26bafc0100@[140.243.30.128]>

I received the manual for the Krohn-Hite Models 330M and Models 330A Ultra-low Frequency Band-pass Filter today. Krohn-Hite shipped it out Express Mail. The manual is a high-quality comb-bound photocopy with a fold-out 11x14 inch schematic. Unfortunately, the manual only has a schematic for the A model. I called Joe Inglis today; he apologized and said he thought he shipped the M-model schematic, and would look for a M schematic and send it along.

The A model covers .02 CPS to 2,000 CPS. The M model covers 0.2 CPS to 20,000 CPS. Otherwise the specs are identical.

Joe thinks the only difference between them is the value of the time constants in the filter networks.

The schematic is very interesting. These units are R-C active filters built around unity-gain cathode-followers, with op-amp input and output stages. The followers are single sections of a 12AX7. The "op-amps" are implemented by a 12AX7 connected as a differential-pair, with a resistor as the "current source".

The power supply is even more interesting. The "op-amps" use split +/-185 volt supplies. The transformer, 6AX5 rectifier, and filter float above and below ground (the center tap on the transformer secondary connects directly to the -185 volt B- supply bus). The first regulator generates the +185 volt rail with respect to ground, which is floating with respect to the transformer/rectifier/filter. It uses an OG3 as the voltage reference. A tracking regulator, again made up of 12AX7 "op-amps", mirrors the +185 volt rail on the -185 volt rail by regulating "ground" to be exactly half-way between the two rails. It took me a while to recognize the circuit and to figure out how the B+ regulator bootstraps itself up before the B- regulator kicks in to stabilize the ground reference point.

Next stuff, and sophisticated circuit design for its time. The schematic is dated July 1, 1958.

Regards,  
-Steve

Steve Byan	internet: steve@hi.com
Hitachi Computer Products (America), Inc.	
1601 Trapelo Road	phone: (617) 890-0444
Waltham, MA 02154	FAX: (617) 890-4998

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Lrware@aol.com  
Subject: Loctal adapters  
Message-ID: <960801204100\_375389388@emout10.mail.aol.com>

Good Evening Gents:  
Not long ago while prowling the bins at my local surplus emporium  
I came across the following:  
3 each Motorola P/N 1-83699E97.  
These are Loctal to 9-pin miniature converters/adapters.  
They are marked: 7V7-7C5 to 12BY7.  
So if your Loctal 7V7 Sharp Cutoff Pentode is dull, or  
your Loctal 7C5 Beam Power Amplifier is out of focus,  
now is your chance to get a nice non-destructive fix for your old  
Halli-Colli-lund whatever.  
They appear to be quite well made (like most Motorola  
stuff.) These are all NIB (New-in-Bag) adapters for which  
I gave the princely sum of \$3.20 each...  
I have no use for them, but thought somebody out in  
BA land would love to have these. So I bought em.  
I offer them to you for \$5 each including shipping CONUS.  
BUT WAIT! THERE'S MORE!  
With every order you also get: A FREE PRIZE!  
Something left over from "Larry's free stuff giveaways!"  
PLEASE write and take these things off my hands. :-)  
-Larry Ware  
lrware@aol.com

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: w5tvw@juno.com (Sandy Blaize)  
Subject: Re: MERCURY VAPOR RECTIFIERS (more)  
Message-ID: <19960731.223631.12287.0.W5TVW@juno.com>

The 30 second (to 1 minute) delay is OK once the rectifiers are "broken in". RCA recommends a 30 minute "cook-in" process just with filament voltage applied when the rectifiers are replaced. This would apply to tubes that have been laid on their sides or transported or "shaken up". The object of the whole exercise is to get the free mercury in the bottom of the glass envelope where it belongs.

They also recommend that a reduced anode voltage be applied at first and worked up over a 30 minute period. With the 866A operating at 2000 volts or less, this can probably be ignored. I'd be more careful with higher anode voltages or bigger tubes like the 872A or the 575.

The 3B28 and similar gas tubes do not require the "break-in" period. Just let them cook for a few minutes the first time they are installed and follow the 30 second time delay afterwards. Generally, the 3B28's are not as long lived as the 866A. The whole idea of the gas or mercury vapor is to lower the voltage drop by nullifying the "space charge" in the tube. It's a process of allowing the gas pressure to stabilize before the anode voltage is switched on.

Most commercial and amateur equipment usually has some means of forcing a safe time delay before anode voltage can be applied. This is the purpose of the delay relays. The 82 and 83 tubes are usually employed in equipment that ignores this precaution due to the much lower voltage and current, and lack of a lot of surplus mercury in those tubes.

DO NOT USE the 83 as a substitute for a 5Z3 in a receiver! One of the drawbacks of M-V rectifiers is the creation of RFI or "hash". You might think your power line noise suddenly increased under some circumstances depending on the circuitry and the individual tube!

73,

Sandy Blaize, W5TVW

Boat Anchors collected, restored, modified, traded & used!

w5tvw@juno.com

417 Ridgewood Drive,

Metairie, LA., 70001.

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: christopher.demeroukas@accessil.com  
Subject: Model 59UHF  
Message-ID: <9607251159.0GUQW01@accessil.com>

Hello Gang -

Does anyone have an original or copy for sale of the manual for the  
Measurements Megacycle Meter Model 59UHF? Thanks very much.

Chris

11:35 CDT 7/25/96

christopher.demeroukas@accessil.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: Spencer Petri <spetri@e-tex.com>  
Subject: More BC-221  
Message-ID: <m0um0GG-0002GHC@e-tex.com>

BC-221AK  
FSN 6625-404-3732  
#4181 C.P.R. 34507-Phila.-43

In wooden box with HB PS. Works great. Says manufactured by C.P.R. Who's  
C.P.R.?

BC-221J  
#3364 Or. Nr. 967-CHI-42  
Zenith Radio Corp. Chicago, Illinois.

Metal case. This unit looks new and has HB PS.

73 de Pete WA5JCI

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: lkayser@rideau.net (Larry Kayser)  
Subject: More on MERCURY VAPOR RECTIFIERS  
Message-ID: <199608011420.KAA01637@mail.peterboro.net>

John:

>What about the Xenon vapor rectifiers like the 3B28?

These tubes work pretty well, I found they arc'd back for some reason.

>Motorola made a 300 Watt continuous output amplifier for land/mobile FM use  
>(pair of 4-125A's).

I converted the GE equivalent to a command transmitter for AMSAT in the mid 70's and sent approximately 5.5 million commands over 5 years to OSCAR VI. I started with 866's, went to 3B28's and finally talked a friend at a broadcast station out of a pair of Unitrode 1N54nn diodes that really did the job. One winter I had to keep this TX in an unheated cold room, the 866's would not come back on line once they got cold, so I just left the 866 filaments on all the time.

>The power supply used a pair of 866A's. It has a 30 second delay, after  
>AC is first turned on, of filament voltage only to the 866's, then the HV  
>comes on.

30 seconds is very short time for anything less than a very warm room. The tubes will arc back. To find out which tube is arcing back do the following. Add some extra wire from the plate of each rectifier and wind a 3 or 4 turn coil large enough to put a 1 inch long piece of a soft iron nail in the center. Run the power supply on full load for a few mins. Then after turning off and discharging the Power Supply, take a compass and note the deflection of the needle on each of the iron cores. When the arc back occurs, take the compass and check the deflection, the tube that arced back will have reverse deflection. Change that tube.

Someone on here mentioned about warming up the 866's for a bit, I encourage this very much. The tubes have to get hot enough to vapourize the mercury, this takes heat and time. I was up to 5 minutes, but then I was never much for warming up the shack in the old days....

Larry  
va3lk / wa3zia

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Paul Bock" <pauboc@smtpLink.pulse.com>  
Subject: Need BC-221-N TM  
Message-ID: <9607018389.AA838940787@smtpLink.pulse.com>

Does anyone have/can anyone make a clean repro they'd be willing to sell? No urgent problem, I'd just like a TM for the BA library in case I ever need it.....

Paul, K4MSG

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: mflicinski@VNET.IBM.COM  
Subject: Ode to an 807  
Message-ID: <199608011806.NAA05849@uro.theporch.com>

I missed my big chance... sleeping at the switch (removed from a tube-type rig) and missed getting this posted to BA Digest 807. With apologies to the 808 lovers among us...

Ode to an 807

An 807 is a marvelous thing  
Its firey filament glowing in the dark  
The plate turns red, the glass starts to sag  
The final meltdown begins with a spark.

807s are at home with RF  
With audio as well  
But, used as a sparkplug  
All goes to hell.

With 5 on the bottom  
and one on the top  
The 807 pins draw current  
But don't know when to stop.

With a blush from the plate  
You view with anticipation  
The sparks and the smoke  
As the tube gives its all with flaming elation.

-Anonymous

I got this a lo-o-ong time ago and thought the release of BA808 Digest might be a neat place for it to appear. (since I missed 807)

73,  
Mike K2UXE  
mflicinski@vnet.ibm.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: QST ON CD-ROM

Message-ID: <9608012115.aa06037@pcusa01.ecunet.org>

What is the quality of reproduction like on these CD-ROM's?

-John Sehring (08/01/96 4:25 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: mack@mails.imed.com  
Subject: Re:QST's  
Message-ID: <9607018389.AA838914785@mails.imed.com>

This may be a duplicate since I am a couple of days behind in the digest.

At Hamcom there was a guy was selling CD ROMs of Riders, QST, and Radiophile.

He is in Dallas and the number is (800)684-3912 or (214)358-5195.  
Hours are 8:30 - 5 Central time.

FAX is (214)357-4693.

The whole set of 11 CD ROMs will set you back \$550 for non-ARRL and \$440 for ARRL members. The thing I like about it is that, unlike Buckmasters, you can buy just the years you want. They come in 5 year sets starting in 1915.

Ray Mack  
WD5IFS  
mack@mails.imed.com  
Friendswood (Houston), TX

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: REGENS & FM  
Message-ID: <9607312000.aa29656@pcusa01.ecunet.org>

I is precisely the \*lack\* of selectivity of regen's and super-regen's that allows them to demodulate FM. The more shallow the selectivity curve is, the more wideband (greater deviation) the FM can be.

-John Sehring (07/31/96 5:23 pm MT @Baker, Montana) UCC wb2eqg



From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: "Andy Howard, WA4KCY" <102452.362@CompuServe.COM>  
Subject: Re: Soldering to Aluminum Chassis  
Message-ID: <960801005044\_102452.362\_DHT84-1@CompuServe.COM>

>

> If this is not practical, has anyone any suggestions? I can get a steel  
> chassis, but I'm a little reluctant to do this (cost and difficulty of  
> punching the many holes I'll need).

>

Chris,

Use terminal strips and solder lugs. The lugs bolt onto the chassis using existing screws for the tube sockets or using their own screws. Terminals always have a ground lug where they bolt onto the chassis. While it is possible to solder to aluminum with special solder and flux it will not be something you would want to show off. Makes a messy looking tie point.

Regards,

Andy, WA4KCY

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996  
From: AviDov@aol.com  
Subject: stranger in the night - CN-850/G Deviation Compensator  
Message-ID: <960801011343\_374736430@emout12.mail.aol.com>

This strange bird showed up in this area and I'm looking at an April 1962 Tech Manual issued by the National Security Agency(DOD)at Ft.Meade,Md.The unit is New and in rack mt.style and seems to be a reference oscillator and specialized FM Receceiver.

If anyone is interested more tech data can be copied from the TM but for now I just

wanted to let our ba members know that it is available.Please reply by Aug.7th since

I will be vacationing for the following two weeks and out of reach.

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: JOHN\_SEHRING.parti@ecunet.org  
Subject: SUPER-REGENS & FM  
Message-ID: <9608012115.aa06076@pcusa01.ecunet.org>

> I agree with the above, but I would state it this way: "the FM  
> deviation \_must\_ be wideband in order to overcome the shallow  
> selectivity curve of a superregen." The original post was regarding  
> NBFM, which I interpret as being on the order of a few (< 10) kHz.

I don't think that's necessary. There only has to be enuf signal to quiet the regen/super-regen whether receiving AM or FM, NBFM or WBFM. Of course, you're right, the less the deviation, the less recovered audio you'll get for a given selectivity curve.

> A typical 'modern' superregen has a 3 dB BW on the order of a few MHz,  
> a 20 dB BW of many MHz. Even the flaky SAW stabilized superregen,  
> which is about as selective as it is going to get, has 3 dB BW on the  
> order of 200 kHz, with a 20 dB BW of 1 MHz or so. There simply won't  
> be enough change in amplitude with BCFM or NBFM signals -- unless the  
> audio gain is increased substantially...but then there's the inherent  
> lack of AM rejection to worry about...not to mention the effects of  
> adjacent channels...and the non-linear amplitude response...  
>

I've used super-regens on 11 and 10 meters (Heath Lunchbox). Selectivity was adequate to separate 50 KHz stations or so. Demodulated FM on 29.6 ok too, but of course not optimum. Super-regens have some inherent impulse noise rejection, too.

Go back into the 30's and 40's QST's & Handbooks to see regens used on 10, 5 & 2.5 m for FM that used about 15 KHz deviation or greater.

-John Sehring (08/01/96 4:28 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: d.buska@aaiate.com  
Subject: Transformer Rewinders  
Message-ID: <96Aug1.144042cdt.15364@gateway.aaiate.com>

A friend (Bob W0DFK) is in need of getting a power transformer from a 6N2 Thunderbolt rewind. The price of a new one from Peter-Dahl is beyond is pocket book. I thought I rememeber reading of some companies who will do this type of rewinding. Unfortunately, I haven't been able to locate where I read it.

Can some one suggest such a company?

Thanks es 73

\*\*\*\*\*

\*\*

\*\* Don Buska N900

Principal Engineer

\*\*

\*\*

**	d.buska@aaiate.com	Advantest America Inc.	**
**	Kenosha, Wisconsin	Buffalo Grove, IL	**
**	(414)654-0072	(847)821-3393	**
**		fax (847)634-2872	**
**			**
**	ARRL-LM      AWA      AMI      CCA      QCWA      CSVHFS      NTMS		**

\*\*\*\*\*

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
 From: w5tvw@juno.com (Sandy Blaize)  
 Subject: Re: Transformer Rewinders  
 Message-ID: <19960801.170802.8087.0.W5TVW@juno.com>

If you find a company, let everyone know! "Rewinding" is VERY labor intensive, and many time it is better for the transformer maker to start from scratch! A small transformer "rewinder/rebuilder" would be a boon to all us "BA" addicts!

73

Sandy Blaize, W5TVW  
 Boat Anchors collected, restored, modified, traded & used!  
 w5tvw@juno.com  
 417 Ridgewood Drive,  
 Metairie, LA., 70001.

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
 From: "Andy Howard, WA4KCY" <102452.362@CompuServe.COM>  
 Subject: Re: Transformer Rewinders  
 Message-ID: <960801233751\_102452.362\_DHT86-1@CompuServe.COM>

>

> If you find a company, let everyone know! "Rewinding" is VERY  
 > labor intensive, and many time it is better for the transformer maker to  
 > start from scratch! A small transformer "rewinder/rebuilder" would be a  
 > boon to all us "BA" addicts!

Sandy and all list members:

There is a friend of mine who rewinds transformers. He is retired from AT&T and does this for something to do. He is very good on plate transformers but I am not sure about small audio units.

His name is Tom Hand, W4WDS. He lives just east of Atlanta in Snellville,

Georgia. His telephone number is 770-972-9533.

He is very honest and reputable. Would not hurt to give him a call if you need something. He wound the modulation reactor for my big AM transmitter.

Regards to all,

Andy Howard, WA4KCY

Carrollton, Georgia

AMI #9

Home page:

<http://ourworld.compuserve.com/homepages/sweetbay>

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996

From: JOHN\_SEHRING.parti@ecunet.org

Subject: TUBE TESTERS

Message-ID: <9607312330.aa04915@pcusa01.ecunet.org>

The TV-2 and TV-7 tube testers mentioned here often...are these MIL items or commercial, made by whom? Thanks.

-John Sehring (07/31/96 8:16 pm MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Thu Aug 1 11:28:52 1996

From: Robert Nickels <ranickel@mwci.net>

Subject: Re: Turner Still in Business?

Message-ID: <320015E6.3F8F@mwci.net>

Gary H. Harmon, Jr. wrote:

>

> I know that the Sure Microphone Company still lives but what about Turner?

> Any information out there?

Turner is still around, a division of Telex (owner of Hy Gain also) since 1979. Unfortunately no longer operating in Cedar Rapids, where all those great mics were built by Iowa farmwives!

For a great history of Turner complete with the wonderful old company logos and pictures, check out Eric Braun's page at:

<http://soli.inav.net/%7Ejebraun/turner52.htm>

73, Bob KE0T

ranickel@mwci.net

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Lahlum-FLR111 Ross" <ross\_lahlum@msmail.wes.mot.com>  
Subject: Wanted: General Radio Catalog  
Message-ID: <9608011840.AA23635@kay.wes.mot.com>

Does anybody have an old (50's or 60's) General Radio catalog they'd be willing to sell?

Thx es 73,  
Ross KB9JJR  
ross\_lahlum@msmail.wes.mot.com

From boatanchors@theporch.com Thu Aug 1 21:17:05 1996  
From: "Barry L. Ornitz" <u856010@eastman.com>  
Subject: WD-40 and other solvents  
Message-ID: <Pine.ULT.3.91.960801213133.8945B@dua150.kpt.emn.com>

Chip Veres wrote:

> I've had good results with a three-step procedure. 1. Clear water. 2.  
> CRC 2-26 or WD-40. 3. 91% Alcohol. This seems to save everything that  
> is not blatantly water-soluble, like speaker cones.

What about things, like many plastics, that are attacked by the solvents in WD-40 and the like? Indiscriminate use of WD-40 can cause more harm than good. Freon TF, \_IF\_ you can still find it (or afford it), was about the safest solvent with regard to plastic damage. The many replacements on the market all have different properties. I think CRC replaced their one or two Freon TF products with over 20 new ones!

Think, and test, before you spray. Even alcohol can damage many plastics.

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

[Freon TF is tri-chloro,tri-fluoroethane. It was once the most popular component of most electronic cleaners because of its low toxicity, low flammability, low surface tension, and high density. Too bad it had ozone harming properties...]